

8

What's the question?

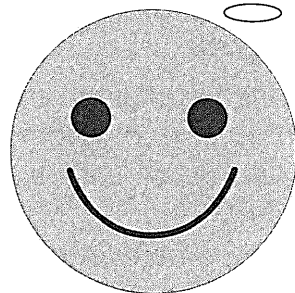
In "What's the question?" kind of tasks the question and parts of the solution are missing. These tasks require pupils to write possible questions and complete the given part of the solution. Such tasks encourage reasoning and working backwards from a specific answer. Pupils will draw on their creative thinking skills to craft the question and draw on their critical thinking skills to ensure that the solution they have completed matches the question. When pupils do such tasks they get an opportunity to take stock of and use their existing knowledge. For example in the task, below taken from Yeap and Kaur (1997), the answer [One-Five-Four] provides a stimulus for pupils to summarise all they know about the area of figures. Whole class discussion must precede individuals working on such tasks because pupils need to share with one another the questions they have crafted. During the presentation of the questions by the pupils the teacher could also engage the pupils in some sort of classification of the questions which may be used later for revision work.

EXAMPLE 1

Topic: Area of plane figures

One - Five - Four

The area is 154 cm^2



1. What could the question be?

2. My solution is :

EXAMPLE 2**Topic : Speed**

Average speed

This is all that is left of your homework.

Your dog ate the question and also parts of the solution.


$$\text{Average speed} = 65 \text{ km/h}$$

What could the question be?

Your teacher wants you to write a question.

You must also provide a complete solution.

1. The question is:

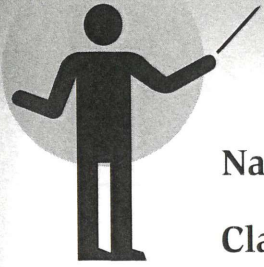
2. My solution is:

**Teaching Goal**

After participating in this lesson, pupils should be able to generate questions that match a given answer or given part of a solution. Pupils have to reason and work backwards from the given answer or both backward and forward from a specific part of a solution as they are expected to write the question and also provide a complete solution.

**Teaching Plan**

1. Present the problem to the pupils.
2. Have pupils read the problem individually.
3. Check with the pupils that they understand what the task is asking them to do.
4. If necessary, do a quick review of the basic concepts that may be applicable to the data in the problem.
5. In pairs, ask pupils to generate the questions and work the complete solutions.
6. Ask pupils to present their questions and solutions.
7. Encourage peer evaluation and check for correctness of both the questions and solutions.



What's the question?



Name: _____ Date : _____

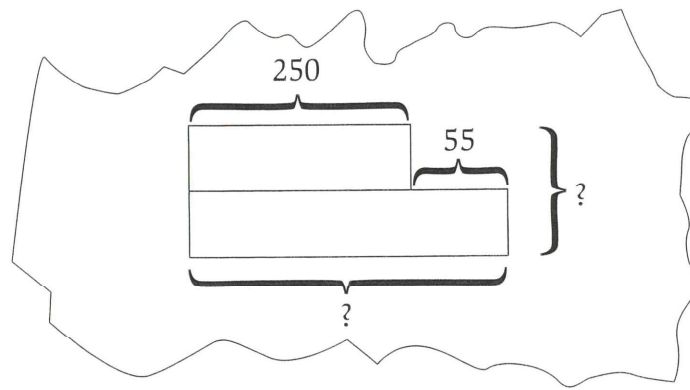
Class : _____ Levels 3 - 6

1

Topic: Numbers To 10 000

Pens and pencils

The question is missing but part of the solution is shown below.



What could the question be?

Your teacher wants you to write a question.

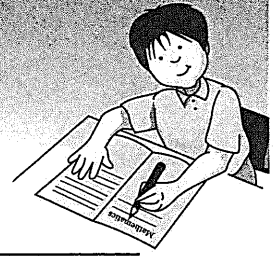
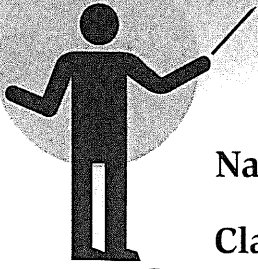
You must also provide a complete solution.

1. The question is:

2. My solution is:

Created by Pearly Tan

What's the question?



Name: _____

Date : _____

Class : _____

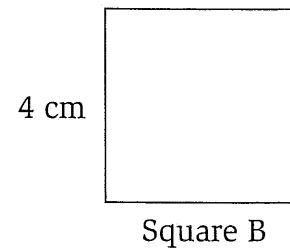
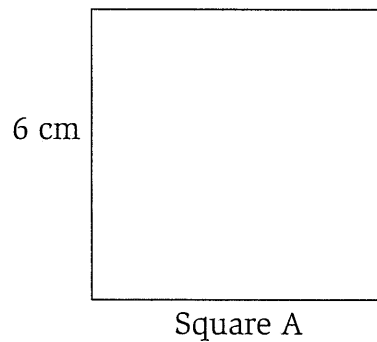
Levels 5 - 6

2

Topic: Fractions

Squares

The question is missing but the diagrams are shown below.



What could the question be?

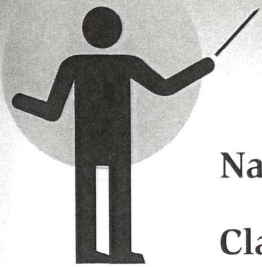
Your teacher wants you to write a question.

You must also provide a complete solution.

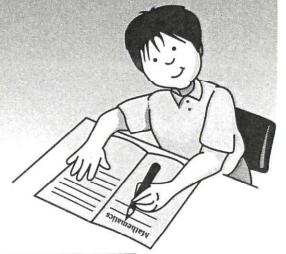
1. The question is :

2. My solution is:

Adapted from : Shaping Mahs (Workbook 5B Part 1, Q9, p22)
by Yu Kai Ling



What's the question?



Name: _____ Date : _____

Class : _____ Levels 4 - 6

3

Topic: Decimals

This is all that is left of your homework.

Your dog ate the question and also parts of the solution.

$$\frac{3}{5} = 0.6$$

$$0.9 - 0.6 = 0.3$$

What could the question be?

Your teacher wants you to write a question.

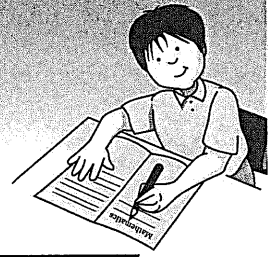
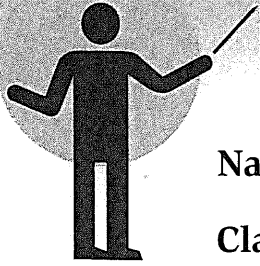
You must also provide a complete solution.

1. The question is:

2. My solution is:

Created by Teo Yuen Cheng

What's the question?



Name: _____ Date : _____

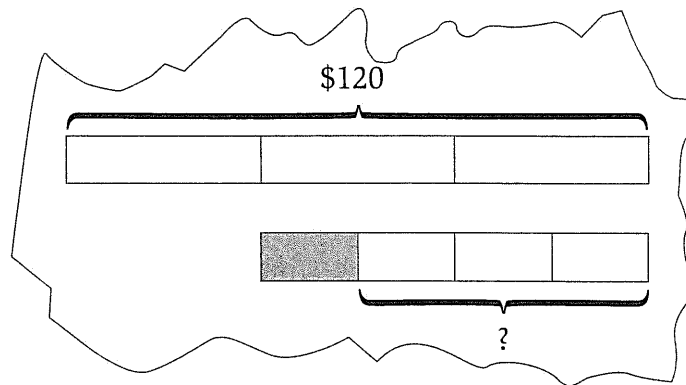
Class : _____ Levels 5 - 6

4

Topic: Fractions

Birthday presents

Your sister accidentally spilled some ink onto your homework. All that you can see is the model shown below.



What was the question?

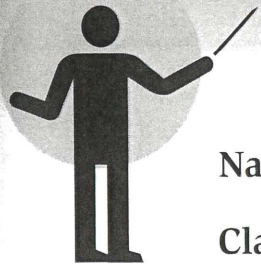
Your teacher wants you to write a question.

You must also provide a complete solution.

1. The question is:

2. My solution is:

Created by Nor Azila & Ms Wang Kaifen



What's the question?



Name: _____ Date : _____

Class : _____ Levels 5 - 6

5

Topic: Average

Banana party

Your friend borrowed your homework and accidentally tore it.
This is all that is left of your homework.

average = 36 bananas

Your teacher wants you to write the question.
You must also provide a complete solution.

1. The question is:

2. My solution is:

Created by Tay Ailing